

217/782-2113

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT  
NSPS SOURCE

PERMITTEE

Central Blacktop Company, Inc.  
Attn: Joe Benson  
6301 South East Avenue  
Hodgkins, Illinois 60525

<u>Application No.:</u> 72110171	<u>I.D. No.:</u> 031126AAC
<u>Applicant's Designation:</u>	<u>Date Received:</u> September 14, 2001
<u>Subject:</u> Asphalt and Aggregate Crushing Plant	
<u>Date Issued:</u> January 4, 2002	<u>Expiration Date:</u> January 4, 2007
<u>Location:</u> 6301 South East Avenue, Hodgkins	

Permit is hereby granted to the above-designated Permittee to OPERATE emission source(s) and/or air pollution control equipment consisting of one (1) gas-fired drum-mix asphalt plant with baghouse, four (4) 30,000 and one (1) 10,000-gallon asphalt storage tanks, one (1) gas-fired asphalt tank heater, one (1) 1,000-gallon anti-strip storage tank, two 10,000 gallon underground storage tanks for diesel, two (2) Cedarapid portable crushers (3054 and 5064), one (1) 6,000 gallon aboveground Prim storage tank, and one (1) 1,000 gallon anti-strip additive storage tank pursuant to above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

- 1a. This federally enforceable state operating permit is issued to limit the emissions of CO and VOM from the asphalt plant to less than major source threshold for the pollutant, as further described in Attachment A. As a result, the source is excluded from requirements to obtain a Clean Air Act Permit Program permit.
- b. Prior to issuance, a draft of this permit has undergone a public notice and comment period.
- c. This permit supersedes the current permit(s) issued for this location.
- 2a. This asphalt plant is subject to New Source Performance Standards (NSPS), 40 CFR 60, Subparts A and I. The Illinois EPA is administering these standards in Illinois on behalf of the United States EPA under a delegation agreement.
- b. The emissions from the asphalt plant shall not contain particulate matter in excess of 0.04 gr/dscf and shall not exhibit 20% opacity or greater, pursuant to the NSPS, 40 CFR 60.92.
- c. At all times the Permittee shall also maintain and operate the asphalt plant, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions, pursuant to the NSPS, 40 CFR 60.11(d).

3. No person shall cause or allow any visible emissions of fugitive particulate matter from any process, including any material handling or storage activity beyond the property line of the source except when the wind speed is in excess of 25 miles per hour, pursuant to 35 Ill. Adm. Code 212.301 and 212.314.
4. Fugitive emissions of particulate matter from grinding mills, screens (except from truck dumping), bucket elevators, belt conveyors, bagging operations, storage bins, and enclosed truck or railcar loading operations shall not exceed 10 percent opacity, (40 CFR 60.672(b) and (d)).
- 5a. The crushing operation is subject to New Source Performance Standards (NSPS), 40 CFR 60, Subparts A and 000. The Illinois EPA is administering these standards in Illinois on behalf of the United States EPA under a delegation agreement.
- b. Fugitive emissions of particulate matter from the crushers (except from truck dumping), shall not exceed 15% opacity, (40 CFR 60.672(c) and (d)).
- c. The Permittee shall maintain and operate the crushing plant, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions pursuant to the NSPS, 40 CFR 60.11(d).
- 6a. Operation of the aggregate crushing plant shall not exceed the following limits:
  - i. Primary Crushing Rate: 300 tons/hour and 150,000 tons/year.
  - ii. Secondary Crushing Rate: 300 tons/hour and 225,000 tons/year.
- b. Compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus preceding 11 months.
- 7a. Operation of the asphalt plant shall not exceed the following limits:

Asphaltic Concrete Production Rate: 350 tons/hour and 562,500 tons/year.
- b. This permit is issued based on the use of natural gas for the asphalt plant dryer and asphalt tank heaters. Use of any other fuel will require a revised permit.
- c. Compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus preceding 11 months.
- 8a. The four (4) 30,000-gallon and one (1) 10,000 gallon asphalt storage tank(s) are subject to New Source Performance Standards (NSPS), 40 CFR 60 Subpart Kb. The Illinois EPA is administering these standards in Illinois on behalf of the United States EPA under a delegation agreement.

- b. At all times, the Permittee shall, to the extent practicable, maintain and operate these tanks, in a manner consistent with good air pollution control practice for minimizing emissions, pursuant to the New Source Performance Standard.
  - c. The Permittee shall fulfill the monitoring of operations requirements of the New Source Performance Standards, 40 CFR 60.116b(a) and (b) for the four (4) 30,000-gallon and one (1) 10,000 gallon asphalt storage tanks. That is, records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel, shall be maintained and readily accessible for the life of the source.
9. This permit is issued based on negligible emissions of volatile organic material (VOM) from the four (4) 30,000-gallon and one (1) 10,000-gallon asphalt storage tanks, one (1) 6,000-gallon Prim storage tank, and one (1) 1,000-gallon anti-strip storage tank. For this purpose emissions from each emission source, shall not exceed nominal emission rates of 0.1 lb/hour and 0.44 ton/yr.
- 10a. The Permittee shall maintain operating logs for:
- i. The asphalt plant dryer control system, including operating data (pressure drop and stack condition), daily upon startup and every four hours thereafter (only during times of actual operation).
  - b. The Permittee shall maintain daily records of the following items:
    - i. Amount of production for each type of aggregate processed used in the Asphalt Plant including fractions which are slag and recycled material (tons/day).
    - ii. Asphaltic concrete production (tons/day).
    - iii. Primary crusher's input feed rate (tons/day).
    - iv. Secondary crusher's input feed rate (tons/day).
  - c. The Permittee shall maintain monthly records of the following items:
    - i. Asphaltic concrete production (tons/month and tons/year).
    - ii. Primary crusher's input feed rate (tons/month and tons/year).
    - iii. Secondary crusher's input feed rate (tons/month and tons/year).
    - iv. Emissions of particulate matter from all equipment using the production rate and emission factors (tons/month and tons/year).
11. All records required by this permit shall be retained at a readily accessible location at the plant for a least 3 years from the date of entry and shall be made available for inspection and copying by the Illinois EPA.

12. Two (2) copies of required reports and notifications concerning equipment operation or repairs, performance testing or a continuous monitoring system shall be sent to:

Illinois Environmental Protection Agency  
Division of Air Pollution Control  
Compliance Section (#40)  
P.O. Box 19276  
Springfield, Illinois 62794-9276

and one (1) copy shall be sent to the Illinois EPA's regional office at the following address unless otherwise indicated:

Illinois Environmental Protection Agency  
Division of Air Pollution Control  
9511 West Harrison  
Des Plaines, Illinois 60016

- 13a. This Permit will expire on the day operation ceases at this location if this plant is moved to a new location, or otherwise on the date specified above.
- b. The transportation and reassembly of a portable plant at a new location requires a new construction and operating permit pursuant to 35 Ill. Adm. Code 201.142 and 201.143. This permit must be obtained prior to reassembling the plant at the new location.
- c. The Illinois EPA is to be notified, in writing, within five (5) days of any relocation of the moveable processing equipment, covered by this permit, to another permitted location.
14. The records required by Condition 11 shall be retained at a readily accessible location at the plant for at least 3 years from the date of entry and shall be made available for inspection and copying by the Illinois EPA and USEPA upon request.
15. If there is an exceedance of the requirements of this permit as determined by the record required by this permit, the Permittee shall submit a report to the Illinois EPA's Compliance Section in Springfield, Illinois within 30 days after the exceedance. The report shall include the emissions released in accordance with the recordkeeping requirements, a copy of the relevant records, and a description of the exceedance or violation and efforts to reduce emissions and future occurrences. This report should be sent to:

Illinois Environmental Protection Agency  
Bureau of Air  
Compliance and Systems Management Section  
P.O. Box 19276  
Springfield, IL 62794-9276

The condition that requires a source to report any exceedance does not authorize continued operation during such event.

16. The Permittee shall submit the following additional information with the Annual Emissions Report, due May 1st of each year: asphalt production, fuel consumption, aggregate production, and total particulate matter emissions from the prior calendar year. If there have been no exceedances during the prior calendar year the Annual Emissions Report shall include a statement to that effect.
17. In the event that the operation of this source results in an odor nuisance, the Permittee shall take appropriate and necessary action to minimize odors, including but not limited to, change in raw material or installation of controls, in order to eliminate the nuisance.
- 18a. Within 90 days of a written request from the Illinois EPA, pursuant to 35 Ill. Adm. Code Section 201.282, the emissions and opacity from the asphalt plant and/or crushing operation shall be measured during conditions which are representative of the maximum performance. The Illinois EPA may provide additional time for the performance of this testing upon request from the Permittee which shows that it is not feasible to perform representative testing within 90 days.
  - b. i. The following methods and procedures shall be used for testing of emissions. Refer to 40 CFR 60, Appendix A for USEPA test methods.

Location of Sample Points	USEPA Method 1
Gas Flow and Velocity	USEPA Method 2
Particulate Matter	USEPA Method 5
Nitrogen Oxides	USEPA Method 7
Opacity	USEPA Method 9
Carbon Monoxide	USEPA Method 10
  - ii. A test shall consist of three separate runs each at least 60 minutes in duration. Compliance shall be determined from the average of the runs provided that the Illinois EPA may accept the arithmetic mean of the two runs in circumstances described in 40 CFR 60.8(f).
- c. Testing shall be performed by a qualified independent testing service.
- d. At least 30 days prior to the actual date of testing a written test plan shall be submitted to the Illinois EPA for review and approval. A copy shall also be submitted to the USEPA. This plan shall describe the specific procedures for testing, including:
  - i. The person(s) who will be performing sampling and analysis and their experience with similar tests.
  - ii. The conditions under which testing will be performed, including a discussion of why these conditions will be representative of the maximum operating rate, the levels of operating parameters at or within which compliance is intended to be shown, if applicable, and the means by which the operating parameters for the process and any control equipment will be determined.

- e. The Illinois EPA shall be notified prior to these tests to enable the Illinois EPA to observe these tests. Notification for the expected date of testing shall be submitted a minimum of thirty (30) days prior to the expected date. Notification of the actual date and expected time of testing shall be submitted a minimum of five (5) working days prior to the actual date of the tests. The Illinois EPA may, at its discretion, accept notification with shorter advance notice provided that the Illinois EPA will not accept such notifications if it interferes with the Illinois EPA's ability to observe the testing.

Please note that this permit has been revised to reflect changes of the added storage tanks, asphalt plant and new emissions data according to the new AP-42 emission factors.

If you have any questions on this, please call Ross Cooper at 217/782-2113.

Donald E. Sutton, P.E.  
Manager, Permit Section  
Division of Air Pollution Control

DES:RWC:jar

cc: IEPA, FOS Region 1  
IEPA, FOS - CMU  
USEPA

Attachment A - Emissions Summary

- 1a. Emissions and operation of the natural gas fired drum-mix asphalt plant shall not exceed the following limits:

<u>Item of Equipment</u>	<u>Asphalt Production</u>		<u>Pollutant</u>	<u>Emission Factor (Lb/Ton)</u>	<u>Emissions</u>	
	<u>(Tons/Mo)</u>	<u>(Tons/Yr)</u>			<u>(Lb/Mo)</u>	<u>(T/Yr)</u>
Gas Fired Drum-Mix Asphalt Plant	200,000	1,123,200	TSP	0.033	6,600	18.53
			CO	0.13	26,000	73.01
			NO <sub>x</sub>	0.026	5,200	14.60
			SO <sub>2</sub>	0.0034	680	1.91
			VOM	0.032	6,400	17.97

These limits are based on standard AP-42 emission factors and a maximum hourly capacity of 650 tons/hour. TSP emission factor is determined by allowable 0.04 gr/dscf emission rate. Compliance with annual limits shall be determined from a running total of 12 months of data.

- b. Emissions and operation of asphalt storage tank heater shall not exceed the following limits:

<u>Item of Equipment</u>	<u>Heat Input Rating (mmBtu/Hr)</u>	<u>Pollutant</u>	<u>Emission Factor (Lb/mm scf)</u>	<u>Emissions</u>	
				<u>(Lb/Mo)</u>	<u>(Ton/Yr)</u>
Gas Fired Asphalt Tank Heater	2.9	NO <sub>x</sub>	100	0.28	1.25
		CO	84	0.24	1.05

These limits are based on Ap-42 emission factors and 8,760 hours of operation and the use of natural gas as the only fuel fired in the heaters. Compliance with annual limits shall be determined from a running total of 12 months of data.

2. Emissions and operation of the crushing operation shall not exceed the following limits:

<u>Item of Equipment</u>	<u>Aggregate Throughput</u>		<u>Pollutant</u>	<u>Emission Factor (Lb/Ton)</u>	<u>Emissions</u>	
	<u>(Tons/Hr)</u>	<u>(Tons/Yr)</u>			<u>(Lb/Mo)</u>	<u>(T/Yr)</u>
Primary Crusher	300	225,000	TSP	0.0007	0.21	0.08
Secondary Crusher	300	225,000	TSP	0.0012	0.36	0.14

These limits are based on standard AP-42 emission factors. Compliance with annual limits shall be determined from a running total of 12 months of data.

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3. Particulate Matter Fugitive Emissions:

Includes emissions from handling and erosion of storage piles, and paved and unpaved plant road traffic: 31.7 tons/yr.

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